INDEX TO VOLUME 31

July–October 1994

RESEARCH-EXPOSITORY PAPERS

McMullen, Curtis T. *Frontiers in complex dynamics*, 155
Murty, M. Ram. *Selberg's conjectures and Artin L-functions*, 1
Rubin, K. and Silverberg, A. *A report on Wiles' Cambridge lectures*, 15
Silverberg, A. *See* Rubin, K.

RESEARCH ANNOUNCEMENTS

Bean, Michael A. *An isoperimetric inequality related to Thue's equation*, 204
Benson, Chal, Jenkins, Joe, Lipsman, Ronald L., and Ratcliff, Gail. *The moment map for a multiplicity free action*, 185
Boyer, S. and Zhang, X. *Exceptional surgery on knots*, 197
Esterle, J., Strouse, E., and Zouakia, F. *Closed ideals of the algebra of absolutely convergent Taylor series*, 39
Gabai, David. *On the geometric and topological rigidity of hyperbolic 3-manifolds*, 228
Guest, M. A. *Configuration spaces and the space of rational curves on a toric variety*, 191
Harvey, Reese and Lawson, H. Blaine, Jr. *A theory of characteristic currents associated with a singular connection*, 54
Ivanov, A. A. and Shpectorov, S. V. *The flag-transitive tilde and Petersen-type geometries are all known*, 173
Jenkins, Joe. *See* Benson, Chal
Jitomirskaya, S. *See* del Rio, R.
Kamada, Seiichi. *Alexander's and Markov's theorems in dimension four*, 64
Kan, Ittai. *Open sets of diffeomorphisms having two attractors, each with an everywhere dense basin*, 68
Latushkin, Y. and Montgomery-Smith, S. *Lyapunov theorems for Banach spaces*, 44
Lawson, H. Blaine, Jr. *See* Harvey, Reese
Lipsman, Ronald L. *See* Benson, Chal
Makarov, N. *See* del Rio, R.
Montgomery-Smith, S. *See* Latushkin, Y.
Montgomery-Smith, S. J. *See* de la Peña, Victor H.
de la Peña, Victor H. and Montgomery-Smith, S. J. *Bounds on the tail probability of U-statistics and quadratic forms*, 223
Perlis, Robert. *See* de Smit, Bart
Ratcliff, Gail. *See* Benson, Chal
del Rio, R., Jitomirskaya, S., Makarov, N., and Simon, B. *Singular continuous spectrum is generic*, 208
Shpectorov, S. V. *See* Ivanov, A. A.
Simon, B. *See* del Rio, R.
de Smit, Bart and Perlis, Robert. *Zeta functions do not determine class numbers*, 213
Strouse, E. *See* Esterle, J.
Triantafillou, Georgia. *Diffeomorphisms of manifolds with finite fundamental group*, 50
Waymire, Edward C. and Williams, Stanley C. *A general decomposition theory for random cascades*, 216
Williams, Stanley C. *See* Waymire, Edward C.
Zhang, X. *See* Boyer, S.
Zouakia, F. *See* Esterle, J.

BOOK REVIEWS

Allday, Christopher and Puppe, Volker. *Cohomological methods in transformation groups*, reviewed by Alejandro Adem, 254
Arnol'd, V. I., Goryunov, V. V., Lyashko, O. V., and Vasil'ev, V. A. *Dynamical systems* VIII (*singularity theory* II), *classification and applications*, reviewed by J. W. Bruce, 283
Assmus, E. F., Jr., and Key, J. D. *Designs and their codes*, reviewed by M. A. Wertheimer, 102
Aubin, Jean-Pierre. *Viability theory*, reviewed by Leonard D. Berkovitz, 116

INDEX TO VOLUME 31

Bahturin, Y. A., Mikhalev, A. A., Petrogradsky, V. M., and Zaicev, M. V. *Infinite dimensional Lie superalgebras*, reviewed by Eric Behr, 91

Björner, A., Las Vergnas, M., Sturmfels, B., White, N., and Ziegler, G. *Oriented matroids*, reviewed by Walter Wenzel, 296

Cannon, J. W. *See* Epstein, David B. A.

Ciarlet, Phillippe. *Mathematical elasticity, Vol.* 1. *Three-dimensional elasticity*, reviewed by R. J. Knops, 246

Clay, James R. *Nearrings—geneses and applications*, reviewed by G. Betsch, 327

Cohen, Henri. *A course in computational algebraic number theory*, reviewed by Hale Trotter, 312

Dal Maso, Gianni. *An introduction to* Γ*-convergence*, reviewed by Marco Avellaneda, 277

DeVille, Robert, Godefroy, Gilles, and Zizler, Vaclav. *Smoothness and renormings in Banach spaces*, reviewed by J. Diestel, 140

Dobrushin, R., Kotecky, R., and Shlosman, S. *Wulff construction, A global shape from local interaction*, reviewed by Jean E. Taylor, 291

Doob, J. L. *Measure theory*, reviewed by P. A. Meyer, 233

Dorfman, Irene. *Dirac structures and integrability of nonlinear evolution equations*, reviewed by Peter J. Olver, 305

Epstein, David B. A., Cannon, J. W., Holt, D. F., Levy, S. V. F., Paterson, M. S., and Thurston, W. P. *Word processing in groups*, reviewed by Gilbert Baumslag, 86

Figà-Talamanca, Alessandro and Nebbia, Claudio. *Harmonic analysis and represention theory for groups acting on homogeneous trees*, reviewed by Carl Herz, 271

Fleming, W. H. and Soner, H. M. *Controlled Markov processes and viscosity solutions*, reviewed by M. H. A. Davis, 75

Foias, Ciprian and Frazho, Arthur E. *The commutant lifting approach to interpolation problems*, reviewed by Harry Dym, 125

Frazho, Arthur E. *See* Foias, Ciprian

Gieseker, D., Knörrer, H., and Trubowitz, E. *The geometry of algebraic Fermi curves*, reviewed by Chris Peters, 94

Gilbert, John E. and Murray, Margaret A. M. *Clifford algebras and Dirac operators in harmonic analysis*, reviewed by Ray A. Kunze, 266

Godefroy, Gilles. *See* DeVille, Robert

Gohberg, I., Goldberg, S., and Kaashoek, M. A. *Classes of linear operators, Volume* 2, reviewed by Louis de Branges, 236

Goldberg, S. *See* Gohberg, I.

Goryunov, V. V. *See* Arnol'd, V. I.

Heinonen, J., Kilpeläinen, T., and Martio, O. *Nonlinear potential theory of degenerate elliptic equations*, reviewed by Nicola Garofalo, 318

Hemion, Geoffrey. *The classification of knots and* 3*-dimensional spaces*, reviewed by Abigail Thompson, 252

Holt, D. F. *See* Epstein, David B. A.

Jones, V. F. R. *Subfactors and knots*, reviewed by Louis H. Kauffman, 147

Kaashoek, M. A. *See* Gohberg, I.

Kadison, Richard V. and Ringrose, John R. *Fundamentals in the theory of operator algebras,* III–IV. *An exercise approach*, reviewed by Gert K. Pedersen, 275

Key, J. D. *See* Assmus, E. F., Jr.

Kilpeläinen, T. *See* Heinonen, J.

Knörrer, H. *See* Gieseker, D.

Kolář, Ivan, Michor, Peter W., and Slovák, Jan. *Natural operations in differential geometry*, reviewed by Albert Nijenhuis, 108

Kotecky, R. *See* Dobrushin, R.

Kozlov, V. V. and Treshchev, D. V. *Billiards. A genetic introduction to the dynamics of systems with impacts*, reviewed by Maciej P. Wojtkowski, 298

Las Vergnas, M. *See* Björner, A.

Levy, S. V. F. *See* Epstein, David B. A.

Lyashko, O. V. *See* Arnol'd, V. I.

Martio, O. *See* Heinonen, J.

Medved, Milan. *Fundamentals of dynamical systems and bifurcation theory*, reviewed by Jürgen Scheurle, 142

Michor, Peter W. *See* Kolář, Ivan

Mikhalev, A. A. *See* Bahturin, Y. A.

Murray, Margaret A. M. *See* Gilbert, John E.
Nazaikinskii, V., Shatalov, V., and Sternin, B. Y. *Contact geometry and linear differential equations*, reviewed by Teresa Monteiro Fernandes, 308
Nebbia, Claudio. *See* Figà-Talamanca, Alessandro
Palis, J. and Takens, F. *Hyperbolicity and sensitive chaotic dynamics at homoclinic bifurcations*, reviewed by John Franks, 301
Paterson, M. S. *See* Epstein, David B. A.
Petrogradsky, V. M. *See* Bahturin, Y. A.
Prüss, Jan. *Evolutionary integral equations and applications*, reviewed by G. Da Prato, 288
Puppe, Volker. *See* Allday, Christopher
Ravenel, Douglas C. *Nilpotence and periodicity in stable homotopy theory*, reviewed by Peter S. Landweber, 243
Ringrose, John R. *See* Kadison, Richard V.
Shapiro, Harold S. *The Schwarz function and its generalization to higher dimensions*, reviewed by J. Korevaar, 112
Shatalov, V. *See* Nazaikinskii, V.
Shlosman, S. *See* Dobrushin, R.
Slovák, Jan. *See* Kolář, Ivan
Soner, H. M. *See* Fleming, W. H.
Sternin, B. Y. *See* Nazaikinskii, V.
Sturnfels, B. *See* Björner, A.
Takens, F. *See* Palis, J.
Thurston, W. P. *See* Epstein, David B. A.
Treshchev, D. V. *See* Kozlov, V. V.
Triebel, Hans. *Theory of function spaces* II, reviewed by Michael Frazier, 119
Trubowitz, E. *See* Gieseker, D.
Vasil'ev, V. A. *See* Arnol'd, V. I.
Vassiliev, V. A. *Complements of discriminants of smooth maps: Topology and applications*, reviewed by Frederick R. Cohen, 258
Warner, Seth. *Topological rings*, reviewed by Irving Kaplansky, 146
White, N. *See* Björner, A.
Zabczyk, Jerzy. *Mathematical control theory: An introduction*, reviewed by Raymond Rishel, 330
Zaicev, M. V. *See* Bahturin, Y. A.
Zhitomirskii, Michail. *Typical singularities of differential 1-forms and Pfaffian equations*, reviewed by Robert Roussarie, 98
Ziegler, G. *See* Björner, A.
Zizler, Vaclav. *See* DeVille, Robert